

FASTENING SCHEDULE 2010 CALIFORNIA BUILDING CODE TABLE 2304.9.1

CONNECTION	FASTENING	LOCATION	
1. Joist to sill or girder	3 - 8d common $(2^{1}/2'' \times 0.131'')$		
	$3 - 3'' \times 0.131''$ nails	toenail	
	3 - 3"14 gage staples	tochan	
2. Bridging to joist	2 - 8d common $(2^{1}/_{2}" \times 0.131")$		
	2 - 3" × 0.131" nails	toenail each end	
	2 - 3" 14 gage staples	tochan cach cha	
$3.1'' \times 6''$ subfloor or less to each	2 - 8d common $(2^{1}/_{2}" \times 0.131")$	face nail	
joist			
4. Wider than $1'' \times 6''$ subfloor to	3 - 8d common $(2^{1}/2'' \times 0.131'')$	face nail	
each joist	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1400 1441	
5. 2" subfloor to joist or girder	2 - 16d common $(3^{1}/2'' \times 0.162'')$	blind and face nail	
6. Sole plate to joist or blocking	$16d (3^{1}/2'' \times 0.135'')$ at 16" o.c.	typical face nail	
	$3'' \times 0.131''$ nails at 8" o.c.		
	3"14 gage staples at 12" o.c.		
Sole plate to joist or blocking at	3- 16d $(3^1/2'' \times 0.135'')$ at 16" o.c.	braced wall panels	
braced wall panel	$4 - 3'' \times 0.131''$ nails at 16" o.c.	I	
	4 - 3"14 gage staples at 16" o.c.		
7. Top plate to stud	$2 - 16d \text{ common } (3^{1}/2'' \times 0.162'')$		
of fine to stand	$3 - 3'' \times 0.131''$ nails	and mail	
	3 - 3"14 gage staples	end nail	
8. Stud to sole plate	4 - 8d common $(2^{1}/2'' \times 0.131'')$	toenail	
o. Stad to sole plate	$4 - 3" \times 0.131"$ nails	toonan	
	3 - 3"14 gage staples		
	2 - 16d common $(3^{1}/2'' \times 0.162'')$	end nail	
	$3 - 3'' \times 0.131''$ nails	one nun	
	3 - 3"14 gage staples		
9. Double studs	$16d (3^{1}/2^{"} \times 0.135")$ at 24" o.c.		
31 2 0 dio 10 diddio	$3'' \times 0.131''$ nail at 8" o.c.	face nail	
	3"14 gage staple at 8" o.c.	1400 1441	
10. Double top plates	$16d (3^{1}/2'' \times 0.135'')$ at 16" o.c.	typical face nail	
10. Bodole top places	$3'' \times 0.131''$ nail at 12" o.c.	typical face hair	
	3"14 gage staple at 12" o.c.		
Double top plates	8 - 16d common $(3^{1}/_{2}" \times 0.162")$	lap splice	
Source top places	$12 - 3'' \times 0.131''$ nails	mp spines	
	12 - 3"14 gage staples		
11. Blocking between joists or	3 - 8d common $(2^{1}/2" \times 0.131")$		
rafters to top plate	$3 - 3'' \times 0.131''$ nails	toenail	
Turtors to top plate	3 - 3"14 gage staples	tochan	
12. Rim joist to top plate	8d $(2^{1}/2^{n} \times 0.131^{n})$ at 6" o.c.		
12. Term joist to top plate	$3'' \times 0.131''$ nail at 6" o.c.	toenail	
	3"14 gage staple at 6" o.c.	Contain	
13. Top plates, laps and intersections	2 - 16d common $(3^{1}/2^{"} \times 0.162")$		
15. Top places, taps and intersections	$3 - 3'' \times 0.131''$ nails	food mail	
	3 - 3"14 gage staples	face nail	
14. Continuous header, two pieces	16d common $(3^{1}/2^{"} \times 0.162")$	16" o.c. along edge	
15. Ceiling joists to plate	3 - 8d common $(2^{1/2} \times 0.102)$ 10 o.e. along edge		
13. Coming Joists to plate	$5 - 80$ common $(27_2 \times 0.131)$ 5 - 3" × 0.131" nails	4	
	3 - 3 ^ 0.131 mans	toenail	

	5 - 3"14 gage staples	
16. Continuous header to stud	4 - 8d common $(2^{1}/2^{"} \times 0.131")$	toenail
17. Ceiling joists, laps over	$3 - 16d \text{ common } (3^{1}/2'' \times 0.162'')$	
partitions	minimum,	
(see <u>Section 2308.10.4.1</u> , Table	Table 2308.10.4.1	face nail
2308.10.4.1)	4 - 3" × 0.131" nails	
	4 - 3"14 gage staples	
18. Ceiling joists to parallel rafters	$3 - 16d \text{ common } (3^1/2'' \times 0.162'')$	
(see <u>Section 2308.10.4.1</u> , Table	minimum,	
2308.10.4.1)	Table 2308.10.4.1	face nail
	4 - 3" × 0.131" nails	
10.70	4 - 3"14 gage staples	
19. Rafter to plate	3 - 8d common $(2^1/2'' \times 0.131'')$	
(see <u>Section 2308.10.1</u> , Table	$3 - 3'' \times 0.131''$ nails	toenail
2308.10.1)	3 - 3"14 gage staples	
20. 1" diagonal brace to each stud	2 - 8d common $(2^{1}/2'' \times 0.131'')$ 2 - 3" × 0.131" nails	
and plate	3 - 3"14 gage staples	face nail
$21.1'' \times 8''$ sheathing to each bearing	3 - 8d common $(2^{1}/2" \times 0.131")$	face nail
22. Wider than $1'' \times 8''$ sheathing to	3 - 8d common $(2\frac{7}{2} \times 0.131)$ 3 - 8d common $(2\frac{1}{2}" \times 0.131")$	face nail
each bearing	3 - 8d common (2 / ₂ × 0.131)	race nan
23. Built-up corner studs	16d common $(3^{1}/_{2}" \times 0.162")$	24" o.c.
23. Built up corner studs	$3'' \times 0.131''$ nails	16" o.c.
	3"14 gage staples	16" o.c.
24. Built-up girder and beams	20d common (4" × 0.192") 32" o.c.	face nail at top and bottom
2 11 2 and up girder and evanis	$3'' \times 0.131''$ nail at 24" o.c.	staggered on opposite sides
	3"14 gage staple at 24" o.c.	11
	$2 - 20d \text{ common } (4'' \times 0.192'')$	face nail at ends and at each splice
	$3 - 3'' \times 0.131''$ nails	-
	3 - 3"14 gage staples	
25. 2" planks	16d common $(3^{1}/_{2}" \times 0.162")$	at each bearing
26. Collar tie to rafter	3 - 10d common $(3'' \times 0.148'')$	
	4 - 3" × 0.131" nails	face nail
	4 - 3"14 gage staples	
27. Jack rafter to hip	$3 - 10d \text{ common } (3'' \times 0.148'')$	toenail
	4 - 3" × 0.131" nails	
	4 - 3"14 gage staples	face nail
	2 - 16d common $(3^1/2'' \times 0.162'')$	
	$3 - 3'' \times 0.131''$ nails	
28. Roof rafter to 2-by ridge beam	3 - 3"14 gage staples 2 - 16d common $(3^1/2" \times 0.162")$	toenail
28. Roof fatter to 2-by fidge beam	$3 - 3'' \times 0.131''$ nails	toenan
	3 - 3 × 0.131 hans 3 - 3"14 gage staples	
	2 -16d common $(3^1/_2" \times 0.162")$	face nail
	$3 - 3'' \times 0.131''$ nails	Tuce Hull
	3 - 3"14 gage staples	
29. Joist to band joist	$3 - 16d \text{ common } (3^{1}/2'' \times 0.162'')$	
y	$4 - 3'' \times 0.131''$ nails	face nail
	4 - 3"14 gage staples	
30. Ledger strip	$3 - 16d \text{ common } (3^1/2'' \times 0.162'')$	
	4 - 3" × 0.131" nails	face nail at each joist
	4 - 3"14 gage staples	y
31. Wood structural panels and	¹ / ₂ " and less 6d ^{c, 1}	
particleboard ^b Subfloor, roof and	$2^{3}/_{8}'' \times 0.113'' \text{ nail}^{n}$	
wall sheathing (to framing)	$1^{3}/_{4}$ "16 gage ^o	
	$8d^{d}$ or $6d^{e}$ $2^{3}/8^{"} \times 0.113^{"}$ nail ^p	
	$0^{3}/11 \times 0.11211 = 10^{11}$	1

	$^{7}/_{8}''$ to 1"	2"16 gage ^p 8d ^c 10d ^d or 8d ^e 6d ^e 8d ^e 10d ^d or 8d ^e	
Single floor (combination subfloor- underlayment to framing)			
32. Panel siding (to framing)	$\frac{1}{2}$ or less $\frac{5}{8}$ "	6d ^f 8d ^f	
33. Fiberboard sheathing ^g	¹ / ₂ " ²⁵ / ₃₂ "	No. 11 gage roofing nail ^h 6d common nail (2" × 0.113") No. 16 gage staple ⁱ No. 11 gage roofing nail ^h 8d common nail (2 ¹ / ₂ " × 0.131") No. 16 gage staple ⁱ	
34. Interior paneling	1/4" 3/8"	4d ^j 6d ^k	

- a. Common or box nails are permitted to be used except where otherwise stated.
- b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except 6 inches at supports where spans are 48 inches or more. For nailing of wood structural panel and particle board diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.
- c. Common or deformed shank $(6d 2^{\circ} \times 0.113^{\circ}; 8d 2^{1/2} \times 0.131; 10d 3^{\circ} \times .148^{\circ})$
- d. Common $(6d 2" \times .113"; 8d 2 \frac{1}{2}" \times 131"; 10d 3" \times .148")$
- e. Deformed shank (6d 2" x .113"; $8d 2 \frac{1}{2}$ " x 0.131; 10d 3" x 0.148")
- f. Corrosion-resistant siding $(6d 17/8" \times 0.106"; 8d 23/8" \times 0.128")$ or casing $(6d 2" \times 0.099"; 8d 21/2" \times 0.113")$ nail
- g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications.
- h. Corrosion-resistant roofing nails with 7/16" diameter head and 1 1/2" length for $\frac{1}{2}$ " sheathing and 1 $\frac{3}{4}$ " length for $\frac{25}{32}$ " sheathing
- i. Corrosion-resistant staples with nominal 7/16" crown or 1" crown and 1 $\frac{1}{4}$ " length for $\frac{1}{2}$ " sheathing and 1 $\frac{1}{2}$ " length for $\frac{25}{32}$ " sheathing. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked.)
- j. Casing (1 ½" x 0.080") or finish (1 ½" x 0.072") nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
- k. Panel supports at 24 inches, casing or finish nails at 6 inches on panel edges, 12 inches at intermediate supports.
- 1. For roof sheathing applications, 8d (2 ½" x 0.113) are the minimum required for wood structural panels.
- m. Staples shall have a minimum crown width of 7/16 inch.
- n. For roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.
- o. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing.
- p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.